## Claims

- 1. A method for distributing discovery information in an IP multicast television network, comprising
  - multicasting offer information (701) linking a service provider offer description (offer 1, offer 2) and a service provider offer localisation (LN<sub>0,1</sub>, LN<sub>0,2</sub>) within the IP multicast network,
  - multicasting stream information (702, 703) at the service provider offer localisation, the stream information linking a multi service transport stream (TS<sub>1,1</sub> -TS<sub>1,4</sub> , TS<sub>2,1</sub> TS<sub>2,3</sub>) and a stream localisation (LN<sub>1,1</sub> LN<sub>1,4</sub> , LN<sub>2,1</sub> LN<sub>2,3</sub>) within the IP multicast network.
- 2. A method according to claim 1, in which the offer and stream information are respectively cyclically multicast.
- 3. A method for broadcasting over an IP multicast network at least one offer of multimedia services received in form of a bundle of transport streams, comprising
  - attributing for each offer (offer 1, offer 2) a determined service provider offer localisation (LN<sub>0,1</sub>, LN<sub>0,2</sub>) within the IP multicast network,
  - creating a file of offer information (701) describing for each offer a relation to its attributed service provider offer localisation,
  - extracting, for each offer, transport stream information from its bundle, the transport stream information comprising a transport stream identification (TS<sub>1,1</sub>-TS<sub>1,4</sub>, TS<sub>2,1</sub>-TS<sub>2,3</sub>) for each transport stream,
  - attributing for each transport stream identification a determined stream localisation  $(LN_{1,1}-LN_{1,4},LN_{2,1}-LN_{2,3})$  within the IP multicast network,
  - creating for each offer a file of stream information (702, 703) describing for each transport stream a relation to its attributed stream localisation.
- 4. A method for broadcasting according to claim 3, further comprising
  - adding for each offer a service provider offer description in the file of offer information.
- 5. A method for broadcasting according to anyone of claims 3 or 4, wherein

 the extracting of transport stream information from its bundle comprises for each transport stream, extracting an original network Id for a network previously used to deliver the transport stream,
and further comprising

- inserting the original network Id in relation to the transport stream in the file of stream information.
- 6. A method for broadcasting according to anyone of claims 3 to 5, further comprising
  - receiving for each transport stream a corresponding stream of packetized data and inserting the packetized data into IP packets,
  - multicasting the IP packets at the stream localisation previously attributed to the transport stream,
  - multicasting the file of offer information at a predetermined offer localisation (LN<sub>0,0</sub>),
  - multicasting for each offer the corresponding stream information file at the service provider offer localisation attributed to the offer.
- 7. A method according to claim 6, in which the files of offer and stream information are respectively cyclically multicast.
- 8. A method for receiving in a set top box receiver compliant to receive a bundle of transport streams and connected to an IP multicast network, a transport stream from a bundle, comprising
  - obtaining multicast stream information (702, 703) from a service provider offer localisation,
  - processing the stream information to determine a stream localisation ( $LN_{1,1} LN_{1,4}$ ,  $LN_{2,1} LN_{2,3}$ ) previously attributed to the transport stream,
  - obtaining multicast IP packets from the stream localisation,
  - extracting packetized data from the obtained IP packets, thereby obtaining the transport stream.
- 9. A method for receiving in a set top box receiver compliant to receive a bundle of transport streams and connected to an IP multicast network, a transport stream from an offer among one or many offers in form of bundles, comprising
  - Obtaining multicast offer information (701) from a predetermined offer localisation,

 Processing the offer information to obtain a determined service provider offer localisation (LN<sub>0,1</sub>, LN<sub>0,2</sub>) previously attributed to the offer,

- Obtaining multicast stream information (702, 703) from the determined service provider offer localisation,
- Processing the stream information to determine a stream localisation previously attributed to the transport stream,
- Obtaining multicast IP packets from the stream localisation,
- Extracting packetized data from the obtained IP packets, thereby obtaining the transport stream.
- 10. A method for receiving in a set top box receiver compliant to receive a bundle of transport streams and connected to an IP multicast network, a transport stream from an offer among one or many offers in form of bundles, comprising
  - obtaining (800) multicast offer information (701) from a predetermined offer localisation (LN<sub>0,0</sub>),
  - processing the offer information to obtain a list of items, each item relating a service provider offer localisation and an offer,
  - obtaining (801), for each item, multicast stream information (702, 703) from the service provider offer localisation corresponding to the item,
  - processing (801) the stream information to obtain a transport stream list (802) of transport streams and respectively related stream localisations,
  - storing the transport stream list in the set top box.
- 11. A method for receiving according to claim 10, comprising
  - requesting (900) a determined transport stream (TS<sub>X,Y</sub>),
  - finding (901) a stream localisation corresponding to the determined transport stream in the transport stream list (802),
  - obtaining (902) multicast IP packets (903) from the stream localisation,
  - extracting (904) packetized data from the obtained IP packets, thereby obtaining the determined transport stream (905).
- 12. A method for broadcasting over an IP multicast network at least one offer of multimedia services received in form of a bundle of transport streams, comprising

 Receiving for each transport stream a corresponding stream of packetized data and inserting the packetized data into IP packets,

 Multicasting the IP packets for each transport stream respectively at a determined stream localisation.